RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/527,788
Source:	PCT
Date Processed by STIC:	03/06/2006

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 03/06/2006
PATENT APPLICATION: US/10/527,788 TIME: 15:55:24

Input Set : A:\63047451.APP

```
3 <110> APPLICANT: WOLF, SABINE
        JAGER, MARTINA
         BANGSOW, THORSTEN
 5
 6
        BANGSOW, CARMEN
 7
         JORDAN, DOMINIK
         PELZER, BERNHARD
         OPPOLZER, THOMAS
11 <120> TITLE OF INVENTION: METHOD FOR IDENTIFYING BBB-SPECIFIC PROTEINS AND
        FRAGMENTS THEREOF
14 <130> FILE REFERENCE: 63047(45107)
16 <140> CURRENT APPLICATION NUMBER: 10/527,788
17 <141> CURRENT FILING DATE: 2005-03-11
19 <150> PRIOR APPLICATION NUMBER: PCT/EP03/09968
20 <151> PRIOR FILING DATE: 2003-03-08
22 <150> PRIOR APPLICATION NUMBER: DE 102 42 016.5
23 <151> PRIOR FILING DATE: 2002-09-11
25 <160> NUMBER OF SEQ ID NOS: 70
27 <170> SOFTWARE: PatentIn Ver. 3.3
29 <210> SEO ID NO: 1
30 <211> LENGTH: 323
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
         clone S129 from BMEC from swine brain
38 <400> SEQUENCE: 1
39 ctgcagccga ggacaacact gattcgagcc gtgacctacc ggccgcggga attcgattta 60
40 tggtgaaaat cgccttcaat acacccgcag cggtgcaaaa agaggaggcg cagcaagacg 120
41 tggaggccct cgtaagccat acggtccgtg ctcagatcct gactggcaag gaactccaag 180
42 ttgccactaa ggaaaaagag ggcttctctg ggagatgcat gcttactctc gtaggccttt 240
43 cetteatett ggeaggaett attgttggtg gageetgeat ttacaagtae tteatgeeca 300
44 agagtaccat actaccatgg aga
                                                                      323
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 22
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
54
        primer
56 <400> SEQUENCE: 2
                                                                      22
57 acctccattg ttatgcctcc ta
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 22
```

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/527,788**DATE: 03/06/2006

TIME: 15:55:24

Input Set : A:\63047451.APP

```
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
67
         primer
69 <400> SEQUENCE: 3
70 qttqcctctc actcttqaca qa
                                                                      22
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 1598
75 <212> TYPE: DNA
76 <213> ORGANISM: Sus sp.
78 <220> FEATURE:
79 <221> NAME/KEY: CDS
80 <222> LOCATION: (119)..(910)
82 <220> FEATURE:
83 <221> NAME/KEY: modified base
84 <222> LOCATION: (1168)
85 <223> OTHER INFORMATION: a, c, g, t, unknown, or other
87 <400> SEQUENCE: 4
88 geggeegeta geataaagaa ggtgatteta ageetagege tatettetee tagteeagee 60
90 tgcagccgag gacaacactg attcgagccg tgacctaccg gccgcgggaa ttcgattt
92 atg gtg aaa atc gcc ttc aat aca ccc gca gcg gtg caa aaa gag gag
                                                                      166
93 Met Val Lys Ile Ala Phe Asn Thr Pro Ala Ala Val Gln Lys Glu Glu
94
                                         10
96 geg cag caa gac gtg gag gec etc gta age cat acg gte egt get cag
97 Ala Gln Gln Asp Val Glu Ala Leu Val Ser His Thr Val Arg Ala Gln
                                    25
100 atc ctg act ggc aag gaa ctc caa gtt gcc act aag gaa aaa gag ggc
                                                                       262
101 Ile Leu Thr Gly Lys Glu Leu Gln Val Ala Thr Lys Glu Lys Glu Gly
102
                                  40
104 ttc tct ggg aga tgc atg ctt act ctc gta ggc ctt tcc ttc atc ttg
                                                                       310
105 Phe Ser Gly Arg Cys Met Leu Thr Leu Val Gly Leu Ser Phe Ile Leu
108 gca gga ctt att gtt ggt gga gcc tgc att tac aag tac ttc atg ccc
                                                                       358
109 Ala Gly Leu Ile Val Gly Gly Ala Cys Ile Tyr Lys Tyr Phe Met Pro
                         70
                                              75
112 aag agt acc atc tac cat gga gag atg tgc ttc ttt gat tct gcg gac
                                                                       406
113 Lys Ser Thr Ile Tyr His Gly Glu Met Cys Phe Phe Asp Ser Ala Asp
114
                     85
                                          90
116 cct gca aat ttc ctc caa gga gga gag ccc tac ttc ctg cct gtg atg
                                                                       454
117 Pro Ala Asn Phe Leu Gln Gly Gly Glu Pro Tyr Phe Leu Pro Val Met
                                    105
120 gaa gag gct gat att cgt gaa gat gac aac att gca atc att gat gtg
                                                                       502
121 Glu Glu Ala Asp Ile Arq Glu Asp Asp Asn Ile Ala Ile Ile Asp Val
122
            115
                                120
124 cct gtc ccc agt ttc tct gat agt gac cct gca gca att att cat gac
                                                                       550
125 Pro Val Pro Ser Phe Ser Asp Ser Asp Pro Ala Ala Ile Ile His Asp
                            135
128 ttt gaa aag ggc atg act gct tac ctg gac ttg ctg ctg ggg aac tgc
                                                                       598
```

RAW SEQUENCE LISTING DATE: 03/06/2006
PATENT APPLICATION: US/10/527,788 TIME: 15:55:24

Input Set : A:\63047451.APP

```
129 Phe Glu Lys Gly Met Thr Ala Tyr Leu Asp Leu Leu Leu Gly Asn Cys
     130 145
                             150
                                                 155
                                                                      160
                                                                            646
     132 tat ctg atg ccc ctc aat acc tcc att gtt atg cct cct aag tat ctc
     133 Tyr Leu Met Pro Leu Asn Thr Ser Ile Val Met Pro Pro Lys Tyr Leu
                                             170
                         165
                                                                            694
     136 gtg gag ctc ttt ggc aaa ctg gca cgt ggc aaa tac ctc cct cac gct
     137 Val Glu Leu Phe Gly Lys Leu Ala Arg Gly Lys Tyr Leu Pro His Ala
                     180
                                         185
     140 tat gtg gtt cat gaa gac ctg gtt gct gtg gaa gag att cat gat gtt
                                                                            742
     141 Tyr Val Val His Glu Asp Leu Val Ala Val Glu Glu Ile His Asp Val
                                     200
                 195
     144 agt aac ctt ggc atc ttt att tac caa ctt tgc aac aac cgc aag tct
                                                                            790
     145 Ser Asn Leu Gly Ile Phe Ile Tyr Gln Leu Cys Asn Asn Arg Lys Ser
                                 215
     148 ttc cgc ctt cgt aga aga gac ctc ttg ctg ggt ttc aac aaa cgt gcc
                                                                            838
     149 Phe Arg Leu Arg Arg Arg Asp Leu Leu Gly Phe Asn Lys Arg Ala
     150 225
                             230
                                                 235
     152 att gat aag tgc tgg aag att aga cac ttc ccc aat gaa ttt att gtt
                                                                            886
     153 Ile Asp Lys Cys Trp Lys Ile Arg His Phe Pro Asn Glu Phe Ile Val
                                             250
                         245
     156 gag acc aag atc tgt caa gag tga gaggcaacag aaaaagagtg tacttagtaa
     157 Glu Thr Lys Ile Cys Gln Glu
                     260
     160 taggaagtca aagatttaca atatgacttc aatattaaag tgtgtaggac attcaagata 1000
     162 tttactcatq catttcctct attqcttata cttaaaaaaa aqaaaqaaaa taaaaactac 1060
     164 taaccattgc aaaaaaaaaa aaaaaaagta ctagtcgacg cgtggccaga aactgaaatg 1120
W--> 166 aaatgatttt tatgtttttc cttttgaatt tatagggttt atgttttntt gaatgcaatg 1180
     168 tgaaggtgtt ggctaacatc ctgacaatga attccatccc ttgtgtatat gtgtgtcttt 1240
     170 aaaagtaaaa tyttcartca tatggtaaaa catgttttaa atttaaaata tttaaaattg 1300
     172 ttttcaacct ttttgtgtag cgcttgtcaa atatcttaac attgtcttgt tttgttttca 1360
     174 ttgtgtgcaa ctttcctgaa tttagaaatt aaatttttgc atttatgtta ggtgttctgt 1420
     176 aatagatatg acttatatgt gaaaaacttt cataaagaag tcattttcac taatrcagtg 1480
     178 actotcactg qtaactgtat tgtqaaatgc acaaaactgt tttagtgctg aatgctataa 1540
     180 ggaatttagg ttgtatgaat tctacaatcc tataataaat tttaccatat tcaaaaaa
     183 <210> SEQ ID NO: 5
     184 <211> LENGTH: 263
     185 <212> TYPE: PRT
     186 <213> ORGANISM: Sus sp.
     188 <400> SEQUENCE: 5
     189 Met Val Lys Ile Ala Phe Asn Thr Pro Ala Ala Val Gln Lys Glu Glu
     192 Ala Gln Gln Asp Val Glu Ala Leu Val Ser His Thr Val Arg Ala Gln
                                          25
    195 Ile Leu Thr Gly Lys Glu Leu Gln Val Ala Thr Lys Glu Lys Glu Gly
    196
                  35
                                      40
    198 Phe Ser Gly Arg Cys Met Leu Thr Leu Val Gly Leu Ser Phe Ile Leu
     201 Ala Gly Leu Ile Val Gly Gly Ala Cys Ile Tyr Lys Tyr Phe Met Pro
     202 65
                              70
```

RAW SEQUENCE LISTING DATE: 03/06/2006
PATENT APPLICATION: US/10/527,788 TIME: 15:55:24

Input Set : A:\63047451.APP

```
204 Lys Ser Thr Ile Tyr His Gly Glu Met Cys Phe Phe Asp Ser Ala Asp
     205
     207 Pro Ala Asn Phe Leu Gln Gly Gly Glu Pro Tyr Phe Leu Pro Val Met
     208
                     100
                                         105
     210 Glu Glu Ala Asp Ile Arg Glu Asp Asp Asn Ile Ala Ile Ile Asp Val
                 115
                                     120
     213 Pro Val Pro Ser Phe Ser Asp Ser Asp Pro Ala Ala Ile Ile His Asp
                                 135
     216 Phe Glu Lys Gly Met Thr Ala Tyr Leu Asp Leu Leu Leu Gly Asn Cys
     217 145
                             150
                                                  155
     219 Tyr Leu Met Pro Leu Asn Thr Ser Ile Val Met Pro Pro Lys Tyr Leu
                                              170
     222 Val Glu Leu Phe Gly Lys Leu Ala Arg Gly Lys Tyr Leu Pro His Ala
     223
                     180
                                         185
     225 Tyr Val Val His Glu Asp Leu Val Ala Val Glu Glu Ile His Asp Val
     226
                 195
                                     200
     228 Ser Asn Leu Gly Ile Phe Ile Tyr Gln Leu Cys Asn Asn Arg Lys Ser
     229
                                 215
                                                      220
     231 Phe Arg Leu Arg Arg Arg Asp Leu Leu Cly Phe Asn Lys Arg Ala
                             230
                                                 235
     234 Ile Asp Lys Cys Trp Lys Ile Arg His Phe Pro Asn Glu Phe Ile Val
                         245
                                             250
     237 Glu Thr Lys Ile Cys Gln Glu
     238
                     260
     242 <210> SEQ ID NO: 6
     243 <211> LENGTH: 814
     244 <212> TYPE: DNA
     245 <213> ORGANISM: Artificial Sequence
     247 <220> FEATURE:
     248 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
               clone S231 from BMEC from swine brain
     251 <220> FEATURE:
     252 <221> NAME/KEY: modified base
     253 <222> LOCATION: (712)
     254 <223> OTHER INFORMATION: a, c, g, t, unknown, or other
     256 <400> SEQUENCE: 6
     257 acatttettt aggtteatte tggttaaggg gatgttegag ggtgggeeae caaattgtet 60
     258 gggctgggga taaagcagtt ggcaagcaaa aactatggga tgatgaactt ttcaatwatq 120
     259 atttaatgat cacatgagta tagaaagctg ttttgagtgc tgaaacagac ttacctatca 180
     260 gatatatcca aaagagattc tatgttaaaa agtcagacta tgactggagt gaaccatgta 240
     261 ttcccttgtc ttttactttg tttctgtgac atttatgttt catgtaactt qcattatqqt 300
     262 tgggtgggtt gtcctagtac tgtattttgg cttcttcttt aataggattg atatttcata 360
     263 tabtataatt gtgaatattt tgakacraat gtttataact ctaggcatat aaaaacagat 420
     264 tctgattccc ttcactgtgt gaatgttttc tgttgaaaaa atggaggata aatatggata 480
     265 ctaatgacac tcattcctaa ttaagttttc aatcagtttg atttggataa cttgcattta 540
     266 teegagatat tgagetaett tetgataatg cateaageat ttetaecata actettteac 600
     267 gcaactgaat gttgttaagt atagttttat cttgctttaa ttaaacttct taagcaaaaa 660
W--> 268 aaaagaaact tcataagcta atacattaga gaaaggttat gatcttgaat cnaqaatqqc 720
     269 ttatggcatt aaggaatgag atacttgtaa attttctttg aaacagccaa ctcctctgtt 780
```

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/527,788**DATE: 03/06/2006

TIME: 15:55:24

Input Set : A:\63047451.APP

Output Set: N:\CRF4\03062006\J527788.raw

270 gtgtcttcac aattcaaaag atatgcctca ctgt 814 273 <210> SEQ ID NO: 7 274 <211> LENGTH: 22 275 <212> TYPE: DNA 276 <213> ORGANISM: Artificial Sequence 278 <220> FEATURE: 279 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer 282 <400> SEQUENCE: 7 283 ccataactct ttcacqcaac tq 22 286 <210> SEQ ID NO: 8 287 <211> LENGTH: 22 288 <212> TYPE: DNA 289 <213> ORGANISM: Artificial Sequence 291 <220> FEATURE: 292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 293 primer 295 <400> SEQUENCE: 8 296 acaacagagg agttggctgt tt 22 299 <210> SEQ ID NO: 9 300 <211> LENGTH: 22 301 <212> TYPE: DNA 302 <213> ORGANISM: Artificial Sequence 304 <220> FEATURE: 305 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 306 primer 308 <400> SEQUENCE: 9 22 309 ggtattgctg gctggtatct tt 312 <210> SEQ ID NO: 10 313 <211> LENGTH: 22 314 <212> TYPE: DNA 315 <213> ORGANISM: Artificial Sequence 317 <220> FEATURE: 318 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 319 primer 321 <400> SEQUENCE: 10 322 atgtaggaat agccgtggtg at 22 325 <210> SEQ ID NO: 11 326 <211> LENGTH: 22 327 <212> TYPE: DNA 328 <213> ORGANISM: Artificial Sequence 330 <220> FEATURE: 331 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 332 primer 334 <400> SEQUENCE: 11 335 ggtctttgtg ttccagctct tc 22 338 <210> SEQ ID NO: 12 339 <211> LENGTH: 23 340 <212> TYPE: DNA

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/527,788

DATE: 03/06/2006 TIME: 15:55:25

Input Set : A:\63047451.APP

Output Set: N:\CRF4\03062006\J527788.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 1168 Seq#:6; N Pos. 712

Seq#:36; N Pos. 1443,1444,1445

Seq#:52; Xaa Pos. 61
Seq#:53; Xaa Pos. 61

VERIFICATION SUMMARY

DATE: 03/06/2006 TIME: 15:55:25

PATENT APPLICATION: US/10/527,788

Input Set : A:\63047451.APP

Output Set: N:\CRF4\03062006\J527788.raw

L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1120 L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:660 L:1164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:1440 L:1514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:671 L:1634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:48